

08-006  
Portland - Kreft

Summary Report  
On The  
Portland Regional Project  
Work Period June 15<sup>th</sup> to September 21<sup>st</sup>, 2008

Located In  
Dawson Mining District  
On  
NTS 115-O-10, 115-O-15  
63° 44' Latitude, 138° 44' Longitude

By  
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January 20, 2009

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## **Location And Access**

The Portland Project, a regional scale reconnaissance project, is located in the Dawson Mining District on NTS mapsheet 115-O-10 and 115-O-15 at approximately 63° 48' north and 138° 44' east. The area evaluated occurs within the heavily placer mined Dominion Creek, Gold Run Creek and Sulphur Creek drainage basins. Access was achieved by truck from Dawson, along several routes, each furnishing access to various portions of the area. The roads are usually easily passable from May 15<sup>th</sup> to October 15<sup>th</sup>. The main access route was the Hunker-Dominion route which provided 2wd access to the Remington Pup, Almeda Pup, Paris, Barramundi Copper, Caribou Creek and Portland occurrences. Access to the Dominion Mountain and Green Gulch occurrences was achieved via the Hunker-Sulphur-Upper Gold Run route. The Upper Gold-Run portion of the latter route is not government maintained, care should be taken in soft spots and several portions of the road are becoming grown in. Travel time from Dawson is approximately one hour one way. Traverses out from these roads were conducted by foot.

## **Topography And Vegetation**

The project area lies within the un-glaciated Klondike Plateau, which is characterized by low rolling hills dissected by deeply incised stream valleys. This region experienced strong surface weathering during the early and mid-Tertiary, as a result, bedrock exposure is extremely limited with the effects of surface weathering extending to depths of as much as 80 metres or more. Overburden and regolithic material averages 2 to 3 metres in thickness, necessitating the use of mechanized trenching to expose bedrock. Permafrost is widespread on north facing slopes, and sporadically occurs in other areas. Although snow cover is mostly gone by mid May, frost does not leave the ground sufficiently for exploration purposes until about mid June. The majority of the area explored is at or below tree line, higher elevations are covered by mixed spruce, birch, poplar and brush, with tree cover generally increasing at lower elevations and on south facing slopes, with brush and scattered stunted trees predominating on north facing slopes and in areas of permafrost or high elevation.

## **History And Previous Work**

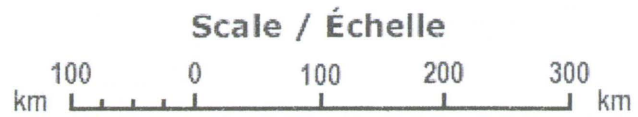
Exploration for the source of the placer gold in the Klondike has been of an ebb and flow nature since 1898. Although numerous significant discoveries such as Lone Star and Hunker Dome have been made, the source of the majority of the placer gold remains an enigma likely due to thick overburden, abundant vegetative cover, widespread permafrost and a variable thickness of regolithic material all conspiring to make historical methods of prospecting of limited use and effect. Discoveries since 2004 (Dysle, Veronika, Gay Gulch, Hunker Dome, Laskey) have come about through the usage of soil geochemistry in combination with mechanized trenching.

Work during 2005 by the writer at Hunker Dome (Mitchell and Sheba occurrences) involved the use of an excavator to follow up 1980's era soil anomalies ranging in intensity from 21-164 ppb gold. Of the 5 trenches spotted to test these gold in soil anomalies, 4 encountered new mineralized



ARCTIC OCEAN  
Océan Arctique

Beaufort Sea  
Mer de Beaufort



LEGEND / LÉGENDE

- Territorial capital / Capitale territoriale
- Other populated places / Autres lieux habités
- Major road / Route principale
- - - International boundary / Frontière internationale
- · - · - Provincial boundary / Limite provinciale

Portland Regional Project ★

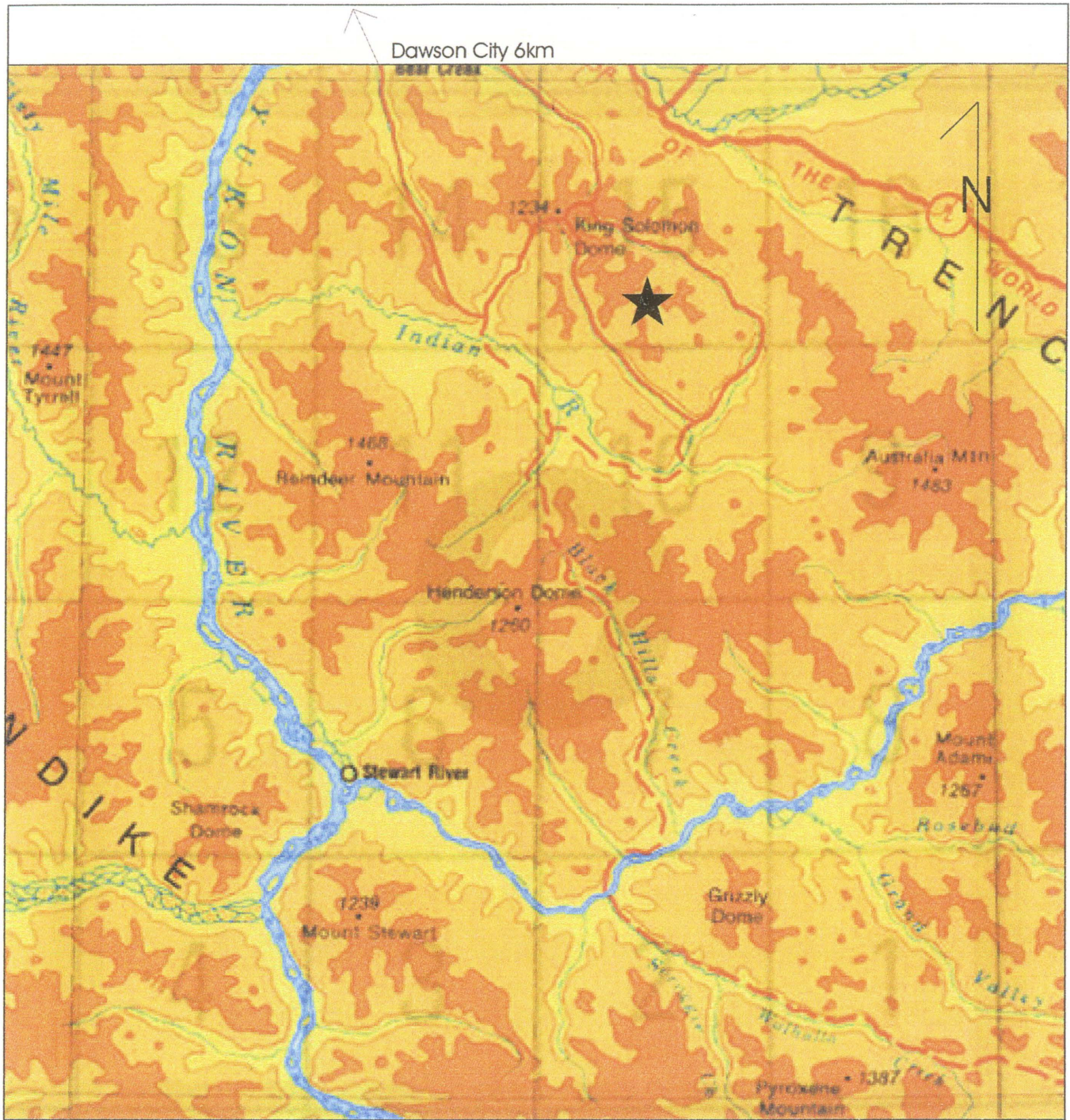
To Accompany: 2009 Portland Report

January 28, 2009

By: Bernie Kreft

Figure 1





Regional Map - Portland Recce Project Final Report   
 Fig.2

Scale approx. 1:600,000



showings with grades of up to 1622 ppb Au and 20.9 ppm Ag over 8.42 metres, and individual grab samples up to 60.8 g/t Au. The recent recognition that alteration haloes adjacent to veins often contain gold values equivalent to the vein itself, has significantly added to the potential tonnage that can be developed from what was once thought of as strictly a vein system.

Regional work conducted by the writer during the 2007 field season resulted in the discovery of a significant previously undiscovered occurrence using deep soil sampling (45 cm or more) with intervals as close as 12.5 metres to mitigate the effects of downhill creep and focusing on south facing slopes to avoid permafrost. Lines were oriented NE-SW to cross-cut the dominant auriferous vein trend (NW) of the district. Subsequent trenching found that soil anomalies greater than 20 ppb Au are probably anomalous, while values of greater than 40 ppb are definitely anomalous. This discovery, located in an actively placer mined area in a district that has been explored for lode gold since 1897, helps emphasize the under-explored nature of the Dawson Goldfields.

Hard-rock exploration in the vicinity of the Portland project has been conducted since 1897, and has resulted in the definition of at least 12 previously explored targets:

**Remington Pup** – Located in the extreme NW corner of the project area, Remington Pup was explored by United Keno Hill Mines (UKHM) during 1987 (AR 092600 Lombard Grid). Work consisted of soil sampling at 25m intervals on east-west trending lines 100m apart. Several highly anomalous soil values were encountered, with values of up to 292 ppb Au generally concentrated on the extreme east edge of the grid. No follow-up work appears to have been completed. RGS silt sampling shows 99<sup>th</sup> percentile values for gold as well as lead from Remington Pup.

**Almeda Pup** – Host to a RGS silt sample site at the 97<sup>th</sup> percentile for arsenic and moderately anomalous for lead. Arsenic and lead are considered good pathfinders for gold enriched quartz veins and alteration zones in the Dawson area. During the 1990's KSL limited explored the general vicinity of Almeda pup using MMI soil sampling methods with generally poor results. It is the writers' opinion that much of the KSL work (AR 094268, 094496) was poorly planned, directed, and conducted, and as such should not be relied upon as a limiting factor to future exploration.

**Nevada Pup** – Host to a RGS silt sample site at the 99<sup>th</sup> percentile for arsenic and moderately anomalous for lead. Arsenic and lead are considered good pathfinders for gold enriched quartz veins and alteration zones in the Dawson area. During the 1990's KSL limited explored the general vicinity of Nevada pup using MMI soil sampling methods with poor results. It is the writers' opinion that much of the KSL work (AR 094268, 094496) was poorly planned, directed, and conducted, and as such should not be relied upon as a limiting factor to future exploration.

**Paris** – During 2007 the proponent made a quick pit stop in an old mined out area on Dominion Creek. Traces of malachite were noted on a piece of argillite and further work noted the presence of disseminated chalcopyrite and possibly bornite within samples of quartz-sericite-biotite-garnet and quartz-biotite-muscovite schist. Values were up to 3209 ppm Cu from a grab sample and several chip samples returned values in the 500-1500 ppm range over 1-2 metres. Recent mapping by Mortenson et al suggests the stratigraphy hosting this discovery is correlative with that which hosts the Lucky Joe target (Ryan; Copper Ridge).



Barramundi Copper – During 1997 Barramundi Exploration conducted a wide-ranging exploration program covering much of the Klondike goldfields. One component of this program was silt sampling (+/-200 samples) focusing on portions of creeks upstream of known placer mining (ie above known disturbances). The best series of mutually supportive copper silt anomalies were found within creeks draining a hill located on the right limit of Dominion Creek opposite the mouth of Jensen Creek. Recent mapping by Mortenson et al suggests the stratigraphy underlying the likely source area of this anomaly is correlative with that which hosts the Lucky Joe target (Ryan; Copper Ridge). No follow up work was completed at this site.

Portland – This prospect was discovered and worked as early as 1898, but was abandoned by 1912. That year Maclean visited the property and took several samples which returned values of up to 0.02 oz/ton Au; one sample when crushed showed a few fine colours of gold. In 1982 Archer Cathro restaked the property as the Klort claims which they explored with soil sampling at 200 metre sample intervals on lines approximately 1.5 kilometres apart. Although the original showing did not report to the grid, a sample taken about 1.0 kilometre to the west returned 44 ppb Au (AR 091565). No follow-up appears to have been completed.

Keller Pup – This is a single point 57 ppb Au soil anomaly discovered by Archer Cathro during a 1983 program (AR 091559) designed to test the potential of the Dominion and Gold Run minfile occurrences. Soil sampling was done at 200 metre sample intervals on lines approximately 1.5 kilometres apart. No follow-up was conducted at this site.

Dominion – Minfile describes this occurrence as an 1898 discovery of a series of quartz-pyrite-galena veins with gold values. Archer Cathro covered this occurrence with the same wide-spaced soil grid that covered the Keller Pup occurrence. No anomalous values were reported from this area.

Barramundi – During 1997 Barramundi Exploration conducted a wide-ranging exploration program covering much of the Klondike goldfields. One component of this program was silt sampling (+/-200 samples) focusing on portions of creeks upstream of known placer mining (ie above known disturbances). This is one of the few samples taken by them that was highly anomalous in gold as well as arsenic. No follow-up was completed.

Gold Run – Minfile describes this occurrence as a series of pits and trenches exploring a NW trending gold-bearing quartz vein system with values of up to 1.75 oz/t Au. Archer Cathro covered this occurrence with the same wide-spaced soil grid that covered the Keller Pup and Dominion occurrences. No anomalous values were reported from this area. Limited grab sampling by Debicki during 1983 did not return any anomalous gold values. In 1993 the Dawson Syndicate covered the showing area with a single soil line with samples at 25 metres intervals and encountered two samples with 45 and 145 ppb Au (AR 093158). No follow-up was completed.

Dominion Mountain – This area was explored by United Keno Hill Mines (UKHM) during 1987 (AR 092600 Dominion Mt South Grid). Work consisted of soil sampling at 25m intervals on east-west trending lines 100m apart. Several highly anomalous soil values were encountered, with values ranging up to 603 ppb Au. Anomalous values were generally concentrated on the east half of the grid, with no follow-up work apparent.



Washington – During regional mapping in 1983, Debicki noted the presence of several old pits and trenches, located over several quartz pyrite veins. Limited grab sampling by Debicki did not return any anomalous values.

## **Geology**

The project is situated on the southwest side of the Tintina Fault, within Yukon Tanana Terrane strata. The Y.T.T. has proven to be an under-explored, yet highly prospective belt of rocks, as witnessed by the recent world-class discoveries at Wolverine, Kudz Ze Kayah and Pogo. The potential for Pogo type occurrences (along with other bulk-tonnage gold targets) has been recognized in the Yukon portion of the Y.T.T., with the area from Dawson, west to Alaska, receiving considerable attention during 1993-2004 from numerous companies, including Newmont, Teck, Kennecott and Phelps Dodge.

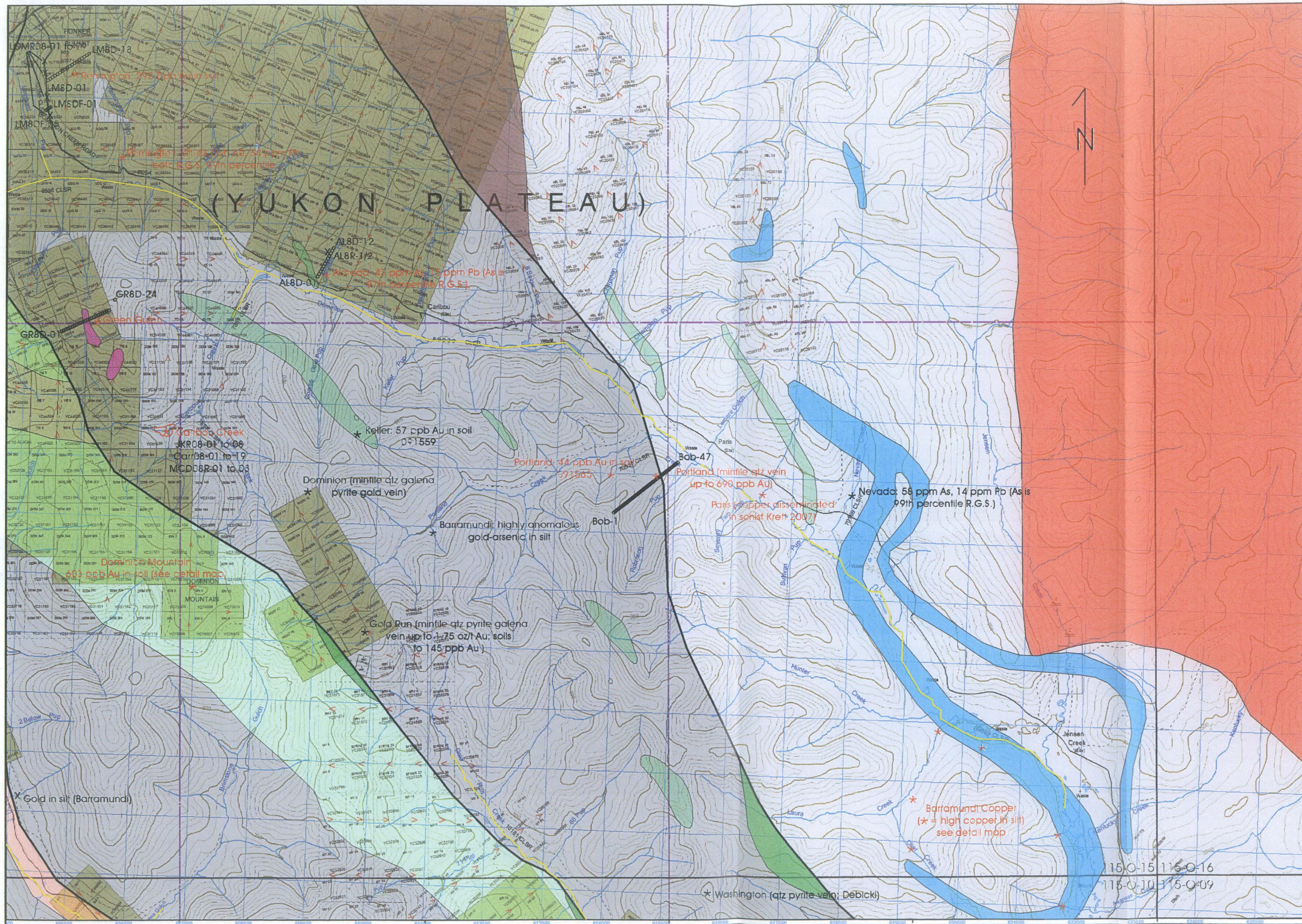
The project is underlain by Klondike Schist, a mixed sequence of schistose rocks. A series of north to west trending thrust faults, whose surface trace is often marked by the presence of serpentized ultramafics or limonitic and heavily pitted quartz sericite schist, dissect the area. Mineralization, consisting of auriferous quartz to quartz-carbonate veins and associated wallrock alteration haloes, appears to be related to fracture zones paralleling the thrust faults and is best developed in the hanging-wall of the thrusts, especially in areas of chlorite quartz schist and to a lesser extent muscovite feldspar quartz schist (Debicki unit MSa and QSd respectively).

## **Current Work And Results**

The 2008 work program consisted of an initial phase of wide ranging soil and rock sampling traverses covering most of the historical targets. Follow up consisted of fill-in soil sampling and prospecting in anomalous areas. Of the 12 targets slated for exploration in 2008, 6 were explored, two were over-staked by a third party, 4 were not visited, and two new ones were located and sampled.

Remington Pup – Initial 2008 fieldwork focused on prospecting subcrop/outcrop located along the east side of the Dominion Creek road opposite the central portion of Lombard Pup. This work resulted in the collection of 9 rock samples, consisting of weakly pyritized muscovite feldspar schist cut by occasional discordant quartz and quartz-carbonate veining. Vein strikes and dips, although almost certainly disrupted by road construction, were generally found to be approximately NW striking and steeply dipping which is common for gold mineralized veins in the district. Assay results returned a maximum of 113 ppb Au, 13 ppm Bi, 424 ppm Pb and 3690 ppm Ba; each value from an individual sample. Subsequent soil sampling yielded 18 samples from a single southwest trending sample line with samples at approximately 50 metre intervals. Results yielded a maximum value of 12 ppb Au and are not considered anomalous. Based on rock fragments from soil pits, it appears that much of the line was within limonitic and pitted quartz sericite schist, possibly indicative of the surface trace of a thrust fault. Final work consisted of the collection of 5 soil





**Legend**

- Fine to porphyritic quartz monzonite and augen gneiss (Devono-Mississippian)
- Devono-Mississippian Fortymile River assemblage variably garnetiferous muscovite quartz +/- feldspar schist
- Devono-Mississippian occasionally banded cream to grey marble +/- minor quartz garnet and muscovite
- Carbonaceous, quartzite and muscovite feldspar quartz schist
- Late Permian mafic chlorite quartz schist +/- calcite +/- muscovite +/- bluish quartz porphyroclasts
- Foliated dark green serpentinite occasionally listwanite altered (Paleozoic?)
- Schist consisting of variable amounts of muscovite, quartz, chlorite and sericite with occasional quartz porphyroclasts; minor amounts of serpentinite and amphibolite. Commonly variably listwanite altered, pyritized and clay altered.
- Late Cretaceous to early Tertiary quartz feldspar rhyolite porphyry
- Permian metaclastics including muscovite feldspar quartz schist and sericite quartz schist
- = historically richest placer gold deposits as well as the most significant gold bearing tributaries
- \* = project targets, red were explored during 2008, black were not evaluated
- x o = 2008 rock and soil samples respectively
- = approximate surface trace of shallow south to west dipping thrust faults

0m 500m 1000m 2000m  
Scale 1:60,000

Overview Map To Accompany  
YMIP Focused Regional Report  
By  
Bernie Kreft  
January 27th, 2009

Geology From:  
Debicki O.F. 1985-1;  
Klondike Star Minerals Website;  
Modified by Kreft



samples from a single sample line designed to cut the area in which the presumed strike of the highest rock sample value would occur. Results were not anomalous, with a maximum value of 7 ppb Au. Control of this target was acquired via the staking of 6 quartz claims.

During 1987 United Keno Hill Mines (UKHM) covered this target with a soil grid which yielded spotty gold in soil values of up to 292 ppb Au (results by Chemex). Although 2008 fieldwork did not confirm the previous high values, more work is warranted to test potential for thrust parallel mineralization. This work should take the form of a single soil sample line oriented perpendicular to the 2008 soil sample lines which were likely thrust parallel. Given the poor 2008 results, and the fact that the target has been previously explored with only sporadic anomalies, this work is of a low priority. Some consideration should be given to the possibility that the previous work was plotted incorrectly due to poor grid control or lack of GPS. Irrespective of the possibility of incorrect plotting, the potential for a sizeable and significantly auriferous northwest striking vein system in this area has been significantly downgraded.

Almeda Pup – Exploration yielded 12 soil samples and 2 rocks samples taken along a soil and rock sampling line parallel to an old road along the north side of Almeda Pup. Soils returned a high of 12 ppb Au, while both rocks returned <5 ppb Au. Geology consists of limonitic and occasionally weakly carbonate altered quartz muscovite schist. Both rock samples consisted of discordant quartz veins within this unit.

Attention was drawn to this area by the presence of an As-Pb RGS silt anomaly near the mouth of the pup which suggested lode gold potential. Soil and rock sampling failed to return any anomalous gold values from the area explored. The potential for locating a sizeable and significantly auriferous northwest striking vein system along lower portion of the pup has been significantly downgraded. No further work is recommended at this time.

Nevada Pup – Not visited based on a lack of positive results from Almeda Pup which is nearby and has similar geology and stratigraphy.

Paris – Detailed prospecting of the general area was unsuccessful in expanding the previously noted occurrence. No samples were taken. The showing appears to be a minor Cu-Ag-Au skarn hosted by limey quartz feldspathic schistose rocks (Debicki unit QS). Further work consisting of occasional visits to the local placer mines to view recently exposed bedrock is recommended but is of a low priority and should be conducted only if in the area.

Barramundi Copper – Fieldwork consisted of two soil sampling lines, with samples taken at 50m intervals. An area of several weakly anomalous copper in soil values (max value 125 ppm Cu) was found on one line, while a single sample anomaly (100 ppm Cu) was found on the other line in. Both anomalous areas are located within muscovite quartz garnet schist near, the mapped contact with a marble unit (Debicki units QSj and MB respectively).

Attention was drawn to this target by the presence of several mutually supportive anomalous copper in silt values based on 1997 work conducted by Barramundi Exploration. Geology is generally correlative with that which underlies the Lucky Joe prospect of Copper Ridge Exploration. Copper



in soil results at this site are only weakly anomalous when compared to values commonly found at the Lucky Joe prospect. Further work consisting of several regional scale soil sample lines to the south and north of the anomalous sites along the same geological trend is recommended and of a low to moderate priority.

Portland – Covered by a single soil sample line consisting of 47 samples taken at 30 metre intervals. Results show a high of 12 ppb Au which is not considered anomalous. Rock fragments from soil pits Bob/Rob 35-36-37 consist of weakly pyritized muscovite feldspar quartz schist with discordant veining, a rock sample comprised of about 15 of these fragments was analyzed and returned 6 ppb Au.

The target at this site was a historical vein showing grading up to 0.02 oz/ton Au and a single soil sample grading 44 ppb Au. Although the historical showing was not located, the sample line was situated at most 200 metres from the described locations and should have encountered better results if the main showing was gold bearing and even somewhat aurally extensive. Results were not anomalous and the potential for locating a sizeable and significantly auriferous thrust parallel or northwest trending vein system in this area has been significantly downgraded. No further work is recommended in this area.

Keller Pup – Not visited and remains on open ground. Geology underlying the presumed location of the soil sample site consists of chlorite quartz schist. Based on favourable geology, specifically the presence of a chlorite quartz schist segment, further work of a low priority is recommended at this site.

Dominion – Not visited and partially overstaked during the year by Franz Vidmar. Similar geological setting and stratigraphic position to the Gold Run, Green Gulch and Caribou Creek target areas; within the footwall of a thrust in muscovite feldspar quartz schist. Based on the lack of positive results from the other projects in a similar stratigraphic and geological setting, and the lack of definitive positive historical data, no work is recommended for the portion of this target that remains on open ground.

Barramundi – Not visited and remains on open ground. Geology underlying the location of the silt sample site consists of muscovite feldspar quartz schist. Further work, of a low priority, is required to explain the silt anomaly.

Gold Run – Not visited and partially overstaked during the year by Franz Vidmar. Similar geological setting and stratigraphic position to the Caribou Creek, Green Gulch and Dominion target areas; within the footwall of a thrust in muscovite feldspar quartz schist. Historical work at this site has been favourable and requires follow up, but based on the lack of positive results from the other projects in a similar stratigraphic and geological setting, work on the portion of the target that remains on open ground is only of a low priority.

Dominion Mountain – Two traverses were conducted in this area to follow up gold in soil values of up to 603 ppb Au located in the hanging-wall of a thrust fault within an area of chlorite quartz schist (Debicki unit MSa). One southwest trending traverse located approximately 330 metres northwest



of the peak of Dominion Mountain, yielded 18 samples at 50 metre intervals. This line returned a single point anomalous value of 38 ppb Au. Subsequent fill-in (7 samples at 12.5 metre intervals) duplicated the 38 ppb Au site with a value of 33 ppb Au, and also added 56 ppb along the line 25m to the northeast. One southwest trending traverse located approximately 750 metres southeast of the peak of Dominion Mountain, yielded 27 samples at 50 metre intervals. This line returned two non-contiguous anomalous values of 20 ppb Au and 21 ppb Au. Subsequent fill-in (7 samples at 25 metre intervals) duplicated the old 20 ppb Au site with 21 ppb Au, duplicated the old 21 ppb Au site with 12 ppb Au and also added a value of 79 ppb Au approximately 25 metres to the east of the 21/12 ppb Au site. Geology underlying the sample sites, based on rock fragments from soil pits, consists of variably limonitic chlorite quartz schist. A total of 7 rock samples were taken from the road bank near the southwest end of the line located southeast of Dominion Mountain. These samples consisted of limonitic and pitted quartz sericite schist, and may indicate the presence of a previously un-mapped thrust fault in this area. Assay results returned a maximum of 17 ppb Au. A maximum of 19 ppb Au was returned from 2 rock samples taken from soil pits west of the anomalous sites on the line located on the northwest side of Dominion Mountain. Control of this target was acquired via the staking of 10 quartz claims.

Although the previous high value of 603 ppb Au could not be duplicated, the values encountered are significant and are considered definitely anomalous. The geological setting suggests the presence of a thrust parallel zone within the favourable hanging-wall chlorite quartz schist unit. This zone, assuming continuity between the two sample lines, has a minimum 1.1 kilometre strike length and appears to consist of two closely parallel anomalous trends. Further work of a high priority is recommended for this site, and should consist of several soil sample lines in an effort to fill in the space between the two 2008 sample lines as well as regional scale step outs to the southeast.

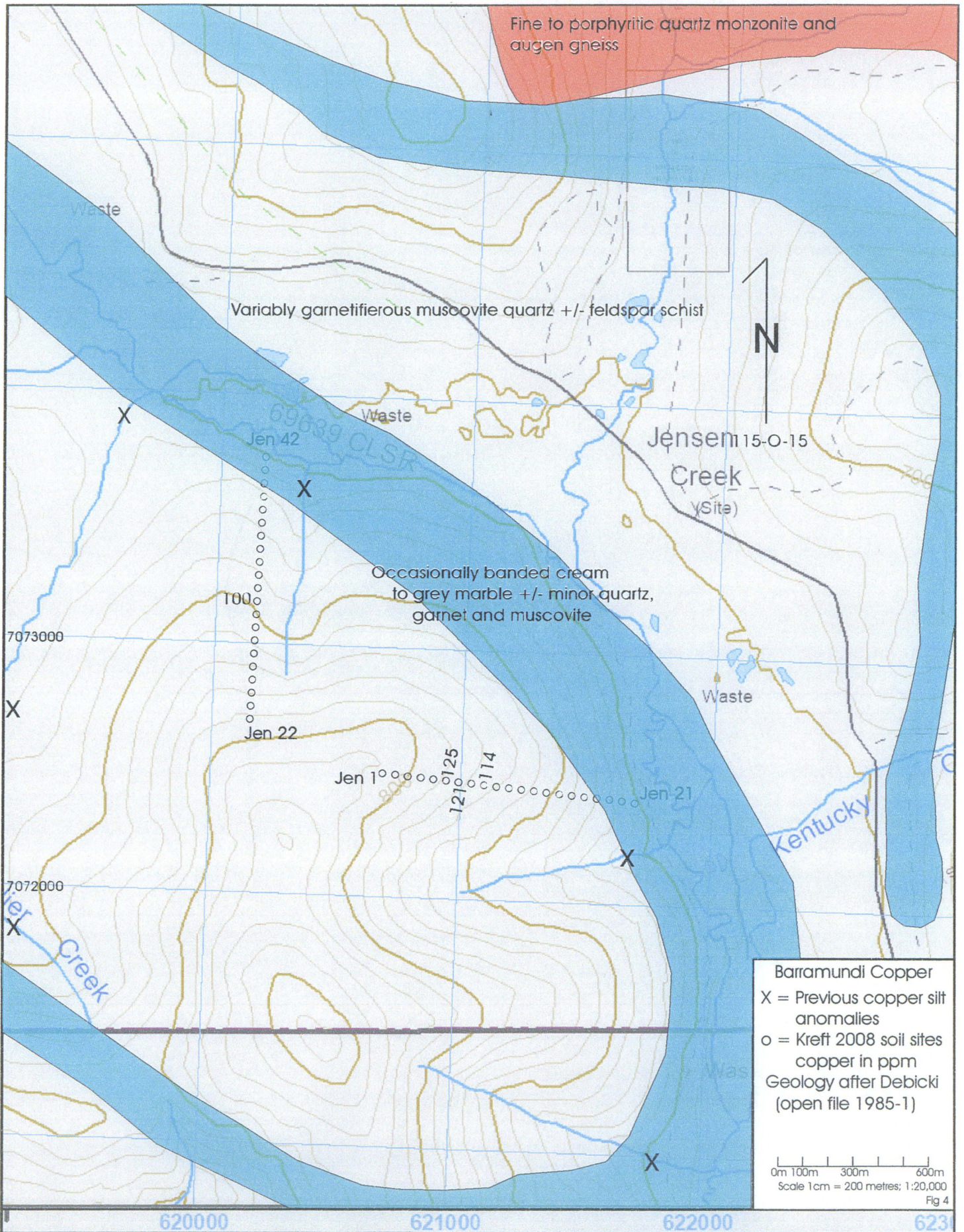
Washington – Not visited and remains on open ground. Similar geological setting and stratigraphic position to the Caribou Creek, Green Gulch, Gold Run and Dominion target areas; within the footwall of a thrust in muscovite feldspar quartz schist. Based on the lack of positive results from the other projects in a similar stratigraphic and geological setting, and the lack of definitive positive historical data, no work is recommended for the portion of this target that remains on open ground.

Green Gulch – A single line with sample intervals at 50 metres yielded a total of 24 soil samples with a maximum value of 10 ppb Au. Several Gold-Rush era pits exposing northwest striking quartz veins were noted just down from the crest of the hill (red x on map) but soil samples from the area were not anomalous for gold. Quartz feldspar rhyolite porphyry was noted in fragments from several soil samples below the old pits. Similar geological setting and stratigraphic position to the Gold Run, Caribou Creek and Dominion target areas; within the footwall of a thrust in muscovite feldspar quartz schist. Control of this target was acquired via the staking of 8 quartz claims.

Results are not anomalous, coupled with the fact that the target is located in the foot-wall of a thrust and that the best economic potential appears to be within the hanging-wall, no further work is recommended for this site.

Caribou Creek – Prospecting at the upstream end of the Caribou Creek placer paystreak encountered numerous discordant mesothermal veins occasionally mineralized with pyrite, galena

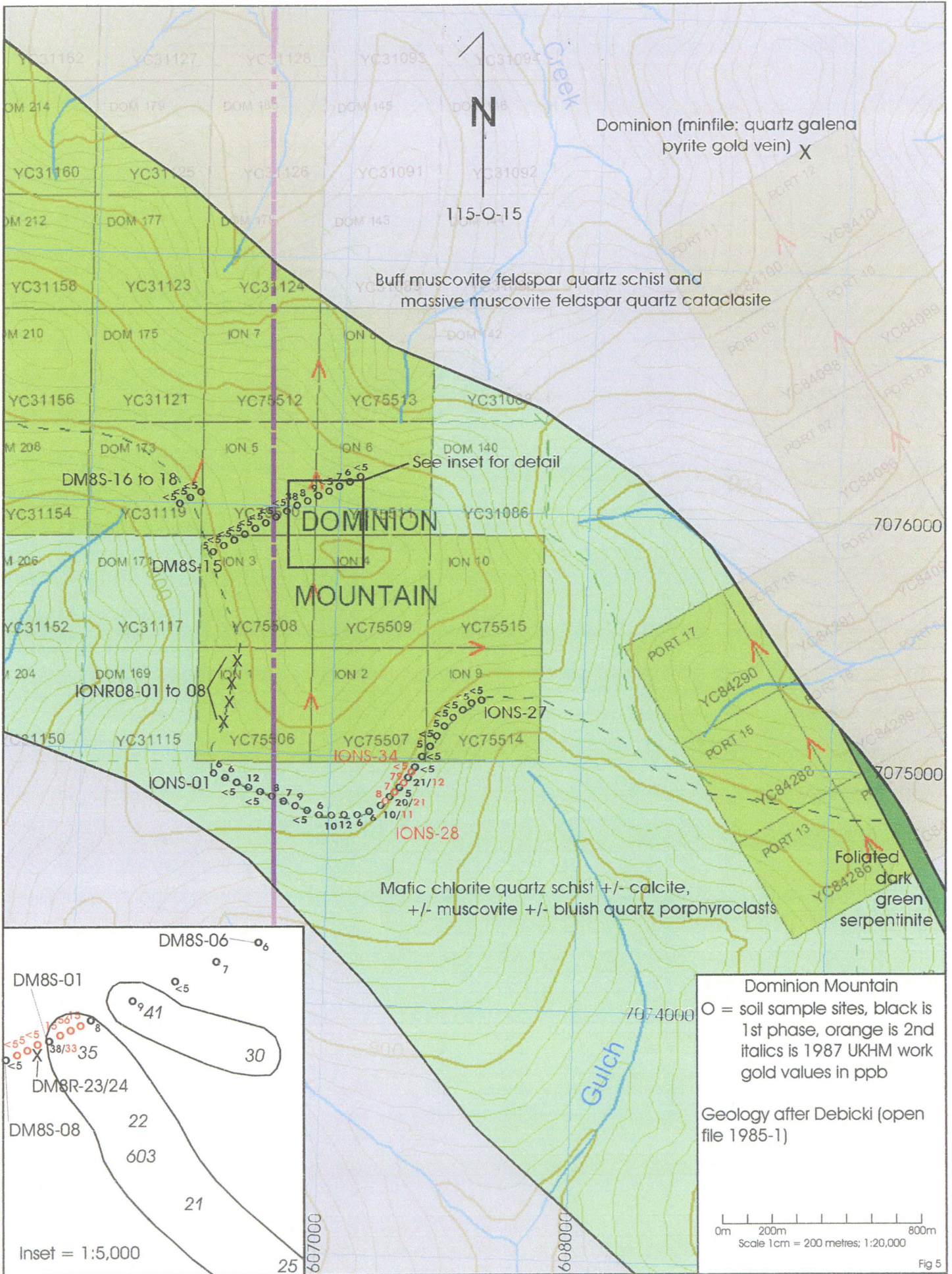




Barramundi Copper  
 X = Previous copper silt anomalies  
 o = Kreft 2008 soil sites copper in ppm  
 Geology after Debicki (open file 1985-1)

0m 100m 300m 600m  
 Scale 1cm = 200 metres: 1:20,000  
 Fig 4







and chalcopyrite. Assay results were disappointing and returned only several weakly anomalous values up to 282 ppb gold. Similar geological setting and stratigraphic position to the Gold Run, Green Gulch and Dominion target areas; within the footwall of a thrust in muscovite feldspar quartz schist.

Although numerous mineralized veins were encountered, only a few weakly anomalous values to a maximum of 282 ppb Au were returned from the 31 samples taken. Given the amount of sampling and exposure, these results are considered poor, especially considering the fact that the samples occur in the less favourable foot-wall of a thrust. Irrespective of this, some further work of a low priority is justified based on the presence of an area of thrust parallel mesothermal veining returning rare anomalous gold values.

**Reclamation** – No significant surface disturbances were created during the course of exploration. All garbage generated during the program was removed from the sites and deposited in the Dawson landfill.

**Conclusions** – Based on the authors previous experiences in the district, best potential for economic gold mineralization appears to be within thrust parallel fracture zones concentrated in the hanging-wall of thrust faults within chlorite quartz schist or to a lesser extent muscovite feldspar quartz schist (Debicki units MSa and QSd respectively). Best results from this reconnaissance program were returned from the Dominion Mountain target within this geological setting. Somewhat favourable results were returned from the Barramundi Copper portion of this program in a geological setting roughly analogous to the Lucky Joe project owned by Copper Ridge Exploration.

**Recommendations** – Further work of a high priority is recommended for the Dominion Mountain target area. This work should consist of several fill in soil lines within the property boundary, as well as several regional scale step-out lines to cover continuations of the geological setting southeast of the property. Work of a low to moderate priority is recommended for the Barramundi Copper target area. This work should consist of several wide spaced soil sampling traverses across the favourable stratigraphic interval. For greater detail on recommendations, see individual target write-ups under the Current Work And Results section of this report.



## Rock Sample Descriptions

- IONR08-01 > Pitted quartz sericite schist possibly a few weathered pyrite vugs; subcrop in ditch
- IONR08-02 > Rusty quartz vein material; subcrop in ditch
- IONR08-04 > Pitted quartz sericite schist possibly a few weathered pyrite vugs; subcrop in ditch
- IONR08-05 > Pitted quartz sericite schist possibly a few weathered pyrite vugs; subcrop in ditch
- IONR08-06 > Rusty quartz vein material; subcrop in ditch
- IONR08-07 > Pitted quartz sericite schist possibly a few weathered pyrite vugs; subcrop in ditch
- IONR08-08 > Pitted quartz sericite schist possibly a few weathered pyrite vugs; subcrop in ditch
- AL8R-1 > 2mm wide discordant vein cutting quartz sericite chlorite schist
- AL8R-2 > discordant hairline sheeted veining cutting quartz muscovite feldspar chlorite schist
- DM8R-23 > rusty, weakly carbonate altered and weakly pyritized chlorite schist; soil hole DM8S-23
- DM8R-24 > as above; soil hole DM8S-24
- JKR08-01 > quartz vein cutting biotite muscovite schist (295 strike) Caribou Creek area
- JKR08-02 > as above Caribou Creek area
- JKR08-03 > as above weakly pyritized Caribou Creek area
- JKR08-04 > quartz pyrite vein cutting weakly carbonate altered and pyritized biotite muscovite schist
- JKR08-05 > as above Caribou Creek area
- JKR08-06 > as above Caribou Creek area
- JKR08-07 > quartz vein only Caribou Creek area
- JKR08-08 > quartz pyrite vein cutting weakly carbonate altered and pyritized biotite muscovite schist
- CARR08-01 > weakly carbonate altered and pyritized quartz muscovite schist Caribou Creek area
- CARR08-02 > as above
- CARR08-03 > as above
- CARR08-04 > as above cut by discordant 1cm quartz vein with possible trace arsenopyrite
- CARR08-05 > 3 cm wide pyritic quartz vein (gouge and veins in this area strike NW or 304)
- CARR08-06 > weakly carbonate altered and pyritized quartz muscovite schist cut by 3 sheeted hairline quartz veins
- CARR08-07 > weakly pyritized and sericitized quartz muscovite schist
- CARR08-08 > 1 cm wide weakly pyritic vuggy and banded quartz vein
- CARR08-09 > weakly pyritized quartz biotite muscovite schist with possible trace diss galena in narrow quartz vein
- CARR08-10 > as above no galena in vein
- CARR08-11 > 3 cm wide limonitic quartz vein no wallrock
- CARR08-12 > weakly pyritized quartz biotite muscovite schist with minor galena possible chalco in narrow quartz vein
- CARR08-13 > 2cm wide limonitic quartz vein coring a 30cm wide limonitic gouge zone (30 cm wide sample)
- CARR08-14 > weakly pyritized quartz biotite muscovite schist with possible trace diss galena in narrow quartz vein
- CARR08-15 > as per sample 13
- CARR08-16 > 3cm weakly pyritic quartz vein
- CARR08-17 > wallrock to below veins
- CARR08-17A > 3 cm wide pyritic quartz vein
- CARR08-18 > as per 13 (60cm wide)
- CARR08-19 > weakly pyritized quartzose schist cut by hairline quartz carbonate vein
- MCD08R-01 > sample at CARR08-04 more pyritic less quartz vein material more clay, carbonate alteration, aspy??
- MCD08R-02 > as above
- MCD08R-03 > as above
- LOMR08-01 > Sample descriptions lost for LOMR series
- LOMR08-02 > as above
- LOMR08-03 > as above
- LOMR08-04 > as above
- LOMR08-05 > as above
- LOMR08-06 > as above
- LOMR08-07 > as above
- LOMR08-08 > as above
- LOMR08-09 > as above



## Statement Of Qualifications

I, Bernie Kreft, conducted the exploration work described herein.

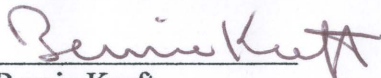
I have over 22 years prospecting experience in the Yukon.

This report is based on fieldwork conducted or witnessed by myself, and includes information from various publicly available assessment reports.

This report is based on fieldwork completed during the 2008 field season.

This report is based on fieldwork completed in the Dawson Goldfields.

Respectfully Submitted,

  
Bernie Kreft



## Statement Of Costs

Truck Costs For 2 Round-Trips, Whitehorse-Dawson (2052km x \$0.60/km)	=	\$1231.20
Truck Costs For 5 Round-Trips, Dawson-Property (800km x \$0.60/km)	=	\$480.00
Room And Board (14 man-days x \$35/day)	=	\$490.00
Analysis on 208 soils and 52 rocks (43 ICP only, 32 Au/ICP, 185 Au only)	=	\$4965.29
Wages Bernie Kreft (5 days x \$350/day)	=	\$1750.00
Wages Jarret Kreft (3 days x \$175/day)	=	\$525.00
Wages Justin Kreft (3 days x \$175/day)	=	\$525.00
Wages Shari Thompson (3 days x \$200/day)	=	\$600.00
Coureur Des Bois (soil sampling and claim staking)	=	\$6168.75
Greyhound Bus (sample shipping to Chemex Vancouver)	=	\$84.34
Report Preparation And Duplication	=	<u>\$2000.00</u>
<b>TOTAL</b>		<b>\$18819.58</b>





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Page: 2 - A  
 Total # Pages: 2 (A - C)  
 Finalized Date: 1-OCT-2008  
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## CERTIFICATE OF ANALYSIS VA08130529

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
GR8ARock		0.09	0.006													
GR6CRock		0.23	<0.005													
DM8R-23		0.36	0.019													
DM8R-24		0.20	<0.005													
FRI08-1A		0.09	0.026	0.5	1.96	100	<10	390	<0.5	2	1.52	0.6	10	38	51	2.97
FRI08-1B		0.10	0.009	0.3	1.69	44	<10	270	<0.5	3	1.08	<0.5	10	35	33	2.73
FRI08-2A		0.88	<0.005	0.4	1.35	38	<10	300	<0.5	2	0.71	0.7	17	33	42	2.75
FRI08-2B		0.06	<0.005	0.4	1.12	25	<10	230	<0.5	2	0.58	0.6	13	28	36	2.47
FRI08-2C		0.22	<0.005	0.3	1.46	41	<10	290	<0.5	2	0.75	0.6	14	35	34	2.79
FRI08-3A		0.31	0.019	0.3	1.50	26	<10	330	<0.5	3	0.44	0.6	12	41	36	2.93
FRI08-3B		0.08	<0.005	0.2	1.94	9	<10	700	<0.5	2	0.71	0.5	11	48	32	2.82
FRI08-3C		0.21	0.007	0.3	1.43	16	<10	310	<0.5	<2	0.52	0.5	12	38	32	2.84
FRI08-4A		0.16	<0.005	0.3	1.74	126	<10	390	<0.5	3	1.11	0.9	11	42	35	3.13
FRI08-4B		0.10	<0.005	0.6	1.36	189	<10	30	<0.5	4	0.74	<0.5	10	33	28	5.70
FRI08-4C		0.20	<0.005	0.4	1.64	34	<10	240	<0.5	2	0.59	0.6	11	42	32	2.72
FRI08-5A		0.23	0.020	0.4	1.66	26	<10	260	<0.5	3	0.25	0.9	19	60	51	3.16
FRI08-5B		0.09	<0.005	0.3	1.66	38	<10	370	<0.5	2	0.23	0.7	14	43	31	2.51
FRI08-5C		0.16	<0.005	0.3	1.53	16	<10	230	<0.5	2	0.21	0.9	18	61	41	2.70
FRI08-6A		0.20	<0.005	0.5	1.19	5	<10	200	<0.5	2	0.45	0.6	15	34	42	2.97
FRI08-6b		0.14	<0.005	0.4	1.19	2	<10	250	<0.5	2	0.53	<0.5	13	35	35	2.79
SUL08-1A		0.42	<0.005	<0.2	1.69	7	<10	160	<0.5	<2	2.96	<0.5	7	11	12	3.40
SUL08-1B		0.44	<0.005	<0.2	1.60	9	<10	130	<0.5	<2	3.07	<0.5	7	10	12	3.33
SUL08-1C		0.70	<0.005	<0.2	1.82	9	<10	130	<0.5	<2	2.98	<0.5	7	11	11	3.71
SUL08-1D		0.54	0.005	<0.2	1.64	19	<10	140	<0.5	<2	3.51	<0.5	6	10	10	3.43
SUL08-2A		0.71	0.016	<0.2	0.51	9	<10	430	<0.5	<2	2.88	<0.5	6	4	14	3.26
SUL08-2B		0.49	0.020	<0.2	0.50	9	<10	420	<0.5	<2	2.94	<0.5	7	4	15	3.38
SUL08-2C		0.60	0.060	<0.2	0.43	13	<10	300	<0.5	<2	3.41	<0.5	7	4	13	3.36
SUL08-2D		1.29	0.075	0.2	0.43	16	<10	390	<0.5	<2	3.29	<0.5	7	4	14	3.49





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 Total # Pages: 2 (A - C)  
 Finalized Date: 1-OCT-2008  
 Account: KREBER

**CERTIFICATE OF ANALYSIS VA08130529**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm
GR8ARock GR6CRock DM8R-23 DM8R-24 FRI08-1A		10	<1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
FRI08-1B		10	<1	0.22	10	1.05	469	3	0.05	25	670	9	0.45	<2	5	40
FRI08-2A		10	<1	0.22	10	0.91	399	3	0.02	42	790	15	0.69	<2	4	25
FRI08-2B		<10	<1	0.15	10	0.79	353	3	0.02	34	660	13	0.64	<2	3	20
FRI08-2C		10	<1	0.20	10	1.04	413	3	0.02	37	740	10	0.62	<2	4	27
FRI08-3A		10	<1	0.18	10	1.13	379	2	0.03	33	780	7	0.44	<2	6	22
FRI08-3B		10	<1	0.44	10	1.05	396	2	0.08	29	680	8	0.43	<2	7	35
FRI08-3C		10	<1	0.18	10	1.09	390	2	0.02	32	780	6	0.46	<2	5	24
FRI08-4A		10	<1	0.27	10	1.14	758	3	0.05	28	730	12	0.65	<2	7	35
FRI08-4B		10	<1	0.19	10	0.93	477	2	0.05	32	620	11	4.48	12	5	22
FRI08-4C		<10	<1	0.18	10	1.19	529	2	0.04	29	730	10	0.48	<2	5	16
FRI08-5A		10	<1	0.15	20	1.44	476	3	0.02	52	980	9	0.46	<2	8	11
FRI08-5B		10	<1	0.27	20	1.28	400	2	0.06	38	730	8	0.30	<2	5	10
FRI08-5C		10	<1	0.14	10	1.33	390	2	0.03	56	860	9	0.17	<2	6	9
FRI08-6A		<10	<1	0.12	10	1.10	269	2	0.03	43	800	7	0.80	<2	6	16
FRI08-6b		<10	<1	0.17	10	1.01	269	2	0.04	40	780	6	0.69	<2	5	20
SUL08-1A		10	<1	0.18	20	0.75	713	<1	0.04	10	1010	9	0.55	<2	5	59
SUL08-1B		10	<1	0.16	20	0.72	711	<1	0.03	9	960	8	0.63	<2	4	59
SUL08-1C		10	<1	0.20	20	0.79	724	1	0.05	9	1000	8	0.77	<2	5	63
SUL08-1D		10	<1	0.21	20	0.71	773	1	0.04	9	950	8	0.94	<2	5	79
SUL08-2A		<10	<1	0.23	10	0.78	886	1	0.05	8	910	6	0.50	<2	5	86
SUL08-2B		<10	<1	0.23	10	0.80	873	<1	0.05	8	960	6	0.53	<2	5	91
SUL08-2C		<10	<1	0.22	10	0.78	940	<1	0.05	9	920	6	0.58	<2	6	114
SUL08-2D		<10	<1	0.20	10	0.80	912	1	0.04	9	990	6	0.77	<2	6	112





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Page: 2 - C  
 Total # Pages: 2 (A - C)  
 Finalized Date: 1-OCT-2008  
 Account: KREBER

**CERTIFICATE OF ANALYSIS VA08130529**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
GR8ARock GR8CRock DM8R-23 DM8R-24 FRI08-1A		<20	0.01	<10	<10	48	<10	107
FRI08-1B		<20	0.01	<10	<10	40	<10	97
FRI08-2A		<20	0.03	<10	<10	32	<10	110
FRI08-2B		<20	0.02	<10	<10	25	<10	90
FRI08-2C		<20	0.03	<10	<10	35	<10	104
FRI08-3A		<20	0.06	<10	<10	46	<10	106
FRI08-3B		<20	0.13	<10	<10	57	<10	94
FRI08-3C		<20	0.07	<10	<10	42	<10	101
FRI08-4A		<20	0.01	<10	<10	43	<10	105
FRI08-4B		<20	0.01	<10	<10	37	<10	78
FRI08-4C		<20	0.01	<10	<10	42	<10	99
FRI08-5A		<20	0.01	<10	<10	53	<10	121
FRI08-5B		<20	0.01	<10	<10	43	<10	94
FRI08-5C		<20	0.01	<10	<10	54	<10	111
FRI08-6A		<20	0.08	<10	<10	40	<10	101
FRI08-6b		<20	0.11	<10	<10	40	<10	82
SUL08-1A		<20	0.01	<10	<10	20	<10	92
SUL08-1B		<20	0.01	<10	<10	18	<10	88
SUL08-1C		<20	0.02	<10	<10	22	<10	95
SUL08-1D		<20	0.02	<10	<10	19	<10	86
SUL08-2A		<20	<0.01	<10	<10	7	<10	96
SUL08-2B		<20	<0.01	<10	<10	7	<10	96
SUL08-2C		<20	<0.01	<10	<10	8	<10	89
SUL08-2D		<20	<0.01	<10	<10	7	<10	98





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## CERTIFICATE OF ANALYSIS VA08105744

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23
		Recvd Wt: kg 0.02	Au ppm 0.005
GR8D-6		0.42	0.006
GR8D-7		0.42	0.009
GR8D-8		0.34	0.009
GR8D-9		0.44	0.010
GR8D-10		0.30	0.010
GR8D-11		0.34	0.010
GR8D-12		0.34	0.005
GR8D-13		0.34	<0.005
GR8D-14		0.40	<0.005
GR8D-15		0.38	<0.005
GR8D-16		0.38	0.005
GR8D-17		0.40	<0.005
GR8D-18		0.32	<0.005
GR8D-19		0.36	<0.005
GR8D-20		0.30	<0.005
GR8D-21		0.28	<0.005
GR8D-22		0.36	<0.005
GR8D-23		0.38	0.005
GR8D-24		0.48	<0.005





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Account: KREBER

## CERTIFICATE OF ANALYSIS VA08105744

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23
		Recvd Wt: kg	Au ppm
		0.02	0.005
GR8D-6		0.42	0.006
GR8D-7		0.42	0.009
GR8D-8		0.34	0.009
GR8D-9		0.44	0.010
GR8D-10		0.30	0.010
GR8D-11		0.34	0.010
GR8D-12		0.34	0.005
GR8D-13		0.34	<0.005
GR8D-14		0.40	<0.005
GR8D-15		0.38	<0.005
GR8D-16		0.38	0.005
GR8D-17		0.40	<0.005
GR8D-18		0.32	<0.005
GR8D-19		0.36	<0.005
GR8D-20		0.30	<0.005
GR8D-21		0.28	<0.005
GR8D-22		0.36	<0.005
GR8D-23		0.38	0.005
GR8D-24		0.48	<0.005





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## CERTIFICATE OF ANALYSIS VA08105745

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23
		Recvd Wt. kg 0.02	Au ppm 0.005
AL8R-1		0.24	<0.005
AL8R-2		0.56	<0.005
IONR08-1		0.54	0.011
IONR08-2		0.44	<0.005
IONR08-4		1.26	0.007
IONR08-5		0.68	0.010
IONR08-6		0.54	<0.005
IONR08-7		0.54	0.017
IONR08-8		0.58	0.013





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**CERTIFICATE OF ANALYSIS VA08099661**

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23
		Recvd Wt. kg 0.02	Au ppm 0.005
CKY 1		0.55	<0.005
CKY 2		0.57	<0.005
CKY 3		0.42	<0.005
CKY 4		0.48	<0.005
CKY 5		0.44	<0.005
CKY 6		0.45	<0.005
CKY 7		0.67	<0.005
CKY 8		0.55	<0.005
CKY 9		0.66	<0.005
CKY 10		0.61	0.007
CKY 11		0.58	<0.005
CKY 12		0.49	0.005
CKY 13		0.66	<0.005
CKY 14		0.49	<0.005
CKY 15		0.55	<0.005
CKY 16		0.49	<0.005
CKY 17		0.50	0.009
CKY 18		0.52	<0.005
CKY 19		0.57	0.034
CKY 20		0.52	0.005
CKY 21		0.57	0.025
CKY 22		0.65	0.047
CKY 23		0.55	0.044
CKY 24		0.75	<0.005
CKY 25		0.55	0.028
CKY 26		0.50	<0.005
CKY 27		0.65	0.013
CKY 28		0.53	<0.005
CKY 29		0.64	0.009
CKY 30		0.70	<0.005
CKY 31		0.55	0.012
CKY 32		0.55	<0.005
CKY 33		0.50	<0.005
CKY 34		0.55	<0.005
CKY 35		0.67	0.009
CKY 36		0.54	<0.005
CKY 37		0.58	0.005
CKY 38		0.68	<0.005
CKY 39		0.51	<0.005
CKY 40		0.55	<0.005

Comments: The sample submittal indicates the sample descriptions for a subset as being from BOB 1 to ROB 47. The IDs received for this subset are BOB 1 to BOB 47.





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Total # Pages: 4 (A)  
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Account: KREBER

## CERTIFICATE OF ANALYSIS VA08099661

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA23 Au ppm
CKY 41		0.41	<0.005
CKY 42		0.57	<0.005
CKY 43		0.59	<0.005
CKY 44		0.56	<0.005
CKY 45		0.72	<0.005
CKY 46		0.68	<0.005
CKY 47		0.48	<0.005
CKY 48		0.62	<0.005
CKY 49		0.59	<0.005
CKY 50		0.64	<0.005
CKY 51		0.60	<0.005
CKY 52		0.51	<0.005
BOB 1		0.74	<0.005
BOB 2		0.39	<0.005
BOB 3		0.36	<0.005
BOB 4		0.53	<0.005
BOB 5		0.44	0.005
BOB 6		0.58	0.005
BOB 7		0.63	<0.005
BOB 8		0.71	<0.005
BOB 9		0.62	<0.005
BOB 10		0.59	<0.005
BOB 11		0.42	<0.005
BOB 12		0.53	<0.005
BOB 13		0.41	<0.005
BOB 14		0.53	<0.005
BOB 15		0.53	<0.005
BOB 16		0.55	<0.005
BOB 17		0.59	<0.005
BOB 18		0.49	<0.005
BOB 19		0.56	<0.005
BOB 20		0.59	<0.005
BOB 21		0.62	<0.005
BOB 22		0.60	<0.005
BOB 23		0.54	<0.005
BOB 24		0.45	<0.005
BOB 25		0.55	<0.005
BOB 26		0.44	<0.005
BOB 27		0.60	<0.005
BOB 28		0.62	<0.005

Comments: The sample submittal indicates the sample descriptions for a subset as being from BOB 1 to ROB 47. The IDs received for this subset are BOB 1 to BOB 47.





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Account: KREBER

## CERTIFICATE OF ANALYSIS VA08099661

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23
		Recvd Wt. kg 0.02	Au ppm 0.005
BOB 29		0.50	<0.005
BOB 30		0.59	<0.005
BOB 31		0.63	<0.005
BOB 32		0.60	<0.005
BOB 33		0.57	<0.005
BOB 34		0.75	<0.005
BOB 35		0.56	<0.005
BOB 36		0.50	<0.005
BOB 37		0.48	0.007
BOB 38		0.65	<0.005
BOB 39		0.61	<0.005
BOB 40		0.61	0.012
BOB 41		0.63	<0.005
BOB 42		0.63	<0.005
BOB 43		0.53	<0.005
BOB 44		0.53	<0.005
BOB 45		0.73	<0.005
BOB 46		0.67	<0.005
BOB 47		0.46	<0.005

Comments: The sample submittal indicates the sample descriptions for a subset as being from BOB 1 to ROB 47. The IDs received for this subset are BOB 1 to BOB 47.





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 WHITEHORSE YT Y1A 5C4

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## CERTIFICATE OF ANALYSIS VA08099660

Sample Description	Method Analyte Units LOR	WEI-21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
JEN 1		0.55	<0.2	1.16	4	<10	60	<0.5	2	0.08	<0.5	7	18	17	2.46	<10
JEN 2		0.60	<0.2	1.40	4	<10	80	<0.5	2	0.08	<0.5	13	19	35	2.11	<10
JEN 3		0.64	0.2	1.69	8	<10	140	<0.5	2	0.13	<0.5	9	29	15	2.57	<10
JEN 4		0.68	0.2	0.64	6	<10	60	0.5	4	0.37	<0.5	17	18	47	1.73	<10
JEN 5		0.55	0.3	1.13	6	<10	180	<0.5	3	6.55	<0.5	10	18	42	2.46	<10
JEN 6		0.58	0.2	2.66	<2	<10	100	0.7	3	0.50	<0.5	19	44	125	4.98	10
JEN 7		0.75	<0.2	2.99	10	<10	210	0.7	3	0.35	<0.5	27	40	121	5.81	10
JEN 8		0.67	<0.2	1.88	5	<10	70	<0.5	2	0.05	<0.5	13	27	37	3.58	10
JEN 9		0.61	<0.2	3.46	4	<10	230	0.9	2	0.17	<0.5	23	103	114	5.49	10
JEN 10		0.64	<0.2	2.15	9	<10	140	0.6	3	0.05	<0.5	11	37	42	3.87	10
JEN 11		0.63	<0.2	1.95	3	<10	130	0.6	<2	0.06	<0.5	25	45	39	3.32	10
JEN 12		0.67	<0.2	1.37	2	<10	80	<0.5	2	6.50	<0.5	16	64	40	2.98	<10
JEN 13		0.66	<0.2	1.20	<2	<10	90	<0.5	2	2.34	<0.5	17	20	33	3.18	<10
JEN 14		0.53	<0.2	1.90	4	<10	220	0.5	2	0.43	<0.5	16	41	33	2.94	<10
JEN 15		0.65	0.2	1.70	4	<10	120	<0.5	2	0.09	<0.5	8	28	34	2.97	<10
JEN 16		0.62	<0.2	1.38	2	<10	60	<0.5	2	2.05	<0.5	28	24	45	3.52	10
JEN 17		0.59	0.2	0.63	13	<10	90	0.6	5	0.57	<0.5	20	19	30	1.53	<10
JEN 18		0.61	0.3	1.65	22	<10	190	0.6	3	0.57	<0.5	13	27	28	3.09	<10
JEN 19		0.71	0.2	2.29	12	<10	200	<0.5	3	0.66	<0.5	26	103	60	4.12	10
JEN 20		0.56	<0.2	1.71	8	<10	100	<0.5	3	0.74	<0.5	16	29	35	3.37	10
JEN 21		0.68	0.2	1.53	13	<10	90	0.5	3	1.40	<0.5	23	37	39	3.57	10
JEN 22		0.08	<0.2	1.42	7	<10	260	<0.5	2	1.31	<0.5	10	22	22	2.55	<10
JEN 23		0.17	0.2	1.54	9	<10	270	0.5	2	0.69	<0.5	11	25	28	2.86	<10
JEN 24		0.20	<0.2	1.38	7	<10	240	<0.5	2	0.61	<0.5	8	22	21	2.38	10
JEN 25		0.28	<0.2	1.43	4	<10	250	<0.5	2	0.50	<0.5	9	24	24	2.43	<10
JEN 26		0.31	<0.2	1.36	7	<10	210	<0.5	<2	0.34	<0.5	8	23	18	2.31	<10
JEN 27		0.57	<0.2	1.29	6	<10	150	<0.5	<2	0.31	<0.5	7	22	13	2.36	<10
JEN 28		0.28	<0.2	2.04	3	<10	160	<0.5	<2	0.21	<0.5	14	40	17	3.42	10
JEN 29		0.28	<0.2	1.34	5	<10	100	<0.5	<2	0.19	<0.5	11	21	29	3.27	<10
JEN 30		0.30	<0.2	1.50	5	<10	170	<0.5	<2	0.25	<0.5	9	25	24	2.82	<10
JEN 31		0.37	<0.2	1.31	9	<10	170	0.5	<2	0.39	<0.5	18	25	100	4.10	<10
JEN 32		0.22	0.2	1.87	4	<10	190	0.6	<2	0.48	<0.5	14	29	74	3.67	<10
JEN 33		0.42	<0.2	2.33	2	<10	210	0.5	<2	0.35	<0.5	18	58	67	4.08	10
JEN 34		0.27	<0.2	1.94	7	<10	200	0.5	<2	0.19	<0.5	12	36	36	3.27	10
JEN 35		0.39	<0.2	1.81	6	<10	180	<0.5	<2	0.18	<0.5	14	33	42	3.44	<10
JEN 36		0.49	<0.2	1.86	7	<10	230	<0.5	<2	0.19	<0.5	15	34	39	3.34	<10
JEN 37		0.64	<0.2	1.44	2	<10	150	<0.5	<2	0.36	<0.5	18	27	38	3.60	10
JEN 38		0.21	<0.2	1.51	3	<10	130	<0.5	<2	0.17	<0.5	19	22	54	3.15	<10
JEN 39		0.48	<0.2	2.01	7	<10	250	0.7	<2	0.37	<0.5	14	33	34	3.71	10
JEN 40		0.35	<0.2	2.09	3	<10	120	0.7	<2	0.53	<0.5	21	40	41	4.62	10





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## CERTIFICATE OF ANALYSIS VA08099660

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
JEN 1	1	0.05	10	0.28	125	1	<0.01	24	240	7	<0.01	<2	3	6	<20	
JEN 2	1	0.10	10	0.35	64	<1	<0.01	42	140	5	<0.01	<2	2	5	<20	
JEN 3	1	0.09	20	0.52	128	1	<0.01	22	160	8	<0.01	<2	3	10	<20	
JEN 4	1	0.04	10	0.19	182	<1	<0.01	34	150	6	<0.01	<2	2	28	<20	
JEN 5	1	0.05	20	0.41	415	1	0.02	26	410	13	0.02	<2	3	243	<20	
JEN 6	1	0.12	30	1.75	148	1	<0.01	57	250	3	0.05	<2	6	46	20	
JEN 7	1	0.17	30	1.61	248	2	0.01	48	860	9	0.01	<2	8	16	<20	
JEN 8	1	0.03	40	0.74	68	1	<0.01	29	250	4	0.01	<2	3	13	<20	
JEN 9	1	0.09	80	2.35	200	3	<0.01	98	630	5	0.02	<2	9	20	20	
JEN 10	1	0.04	50	0.76	114	1	<0.01	28	220	7	<0.01	<2	8	9	20	
JEN 11	1	0.22	50	0.80	92	<1	<0.01	68	140	4	<0.01	<2	6	9	20	
JEN 12	1	0.30	10	0.80	288	<1	0.01	66	670	6	0.01	<2	5	132	<20	
JEN 13	1	0.11	10	0.48	310	<1	<0.01	45	280	7	0.01	<2	3	64	<20	
JEN 14	1	0.04	30	0.65	220	<1	0.01	37	180	8	<0.01	<2	4	31	<20	
JEN 15	1	0.03	30	0.62	94	1	0.01	21	180	6	0.02	<2	3	17	<20	
JEN 16	1	0.13	30	0.78	323	<1	<0.01	86	600	8	0.01	<2	3	60	<20	
JEN 17	1	0.04	10	0.15	130	<1	<0.01	44	190	5	<0.01	<2	2	70	<20	
JEN 18	<1	0.06	30	0.58	288	<1	0.01	39	310	13	0.01	<2	4	54	<20	
JEN 19	1	0.28	60	1.53	295	1	0.01	78	1750	4	0.01	<2	7	30	<20	
JEN 20	1	0.06	30	0.67	189	<1	0.01	37	460	6	0.03	<2	2	34	<20	
JEN 21	1	0.16	40	0.61	491	<1	0.01	68	690	9	0.02	<2	4	80	<20	
JEN 22	<1	0.04	10	0.39	1215	<1	0.01	21	530	9	0.04	<2	3	80	<20	
JEN 23	1	0.05	20	0.48	383	<1	0.01	25	560	10	0.02	<2	4	46	<20	
JEN 24	1	0.04	20	0.41	197	<1	0.01	21	570	9	0.02	<2	3	40	<20	
JEN 25	1	0.05	20	0.46	233	<1	0.01	21	630	8	0.01	<2	4	32	<20	
JEN 26	<1	0.05	20	0.41	209	<1	0.01	18	510	8	0.01	<2	3	24	<20	
JEN 27	<1	0.05	10	0.42	149	<1	0.01	17	540	8	0.01	<2	3	20	<20	
JEN 28	1	0.39	20	0.87	145	<1	0.01	35	520	6	0.01	<2	3	13	<20	
JEN 29	<1	0.04	30	0.37	158	<1	0.01	38	410	9	0.01	<2	4	18	<20	
JEN 30	1	0.04	40	0.46	157	<1	0.01	26	400	17	0.01	<2	4	21	<20	
JEN 31	<1	0.06	30	0.47	681	<1	0.02	37	500	52	0.02	<2	5	27	<20	
JEN 32	<1	0.04	30	0.83	313	<1	0.02	35	560	26	0.01	<2	6	24	<20	
JEN 33	<1	0.04	20	1.23	255	<1	0.01	51	1100	8	0.01	<2	7	18	<20	
JEN 34	<1	0.06	30	0.69	152	<1	0.01	30	340	12	0.01	<2	5	16	<20	
JEN 35	<1	0.04	50	0.73	138	<1	0.01	40	460	6	0.01	<2	5	17	<20	
JEN 36	<1	0.07	30	0.75	192	<1	0.02	35	360	8	0.04	2	4	23	<20	
JEN 37	<1	0.05	40	0.61	135	<1	0.01	41	1100	5	0.01	<2	3	19	<20	
JEN 38	<1	0.05	50	0.56	132	<1	0.01	43	550	6	0.01	<2	2	13	<20	
JEN 39	<1	0.06	40	0.62	289	<1	0.02	40	470	13	0.01	<2	6	39	<20	
JEN 40	1	0.38	30	0.94	446	<1	0.02	58	890	12	0.01	<2	7	74	<20	





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## CERTIFICATE OF ANALYSIS VA08099660

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti	Ti	U	V	W	Zn
		%	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2
JEN 1		0.04	<10	<10	33	<10	37
JEN 2		0.05	<10	<10	23	<10	44
JEN 3		0.07	<10	<10	47	<10	48
JEN 4		0.03	<10	<10	24	<10	54
JEN 5		0.03	<10	<10	30	<10	58
JEN 6		0.12	<10	<10	34	<10	55
JEN 7		0.09	<10	<10	115	<10	86
JEN 8		0.02	<10	<10	24	<10	81
JEN 9		0.13	<10	<10	98	<10	102
JEN 10		0.04	<10	<10	45	<10	72
JEN 11		0.07	<10	<10	43	<10	70
JEN 12		0.06	<10	<10	26	<10	62
JEN 13		0.05	<10	<10	22	<10	82
JEN 14		0.03	<10	<10	42	<10	59
JEN 15		0.03	<10	<10	33	<10	59
JEN 16		0.05	<10	<10	18	<10	97
JEN 17		0.02	<10	<10	24	<10	57
JEN 18		0.04	<10	<10	39	<10	62
JEN 19		0.08	<10	<10	82	<10	84
JEN 20		0.03	<10	<10	38	<10	75
JEN 21		0.04	<10	<10	30	<10	81
JEN 22		0.06	<10	<10	37	<10	53
JEN 23		0.07	<10	<10	44	<10	60
JEN 24		0.06	<10	<10	39	<10	54
JEN 25		0.07	<10	<10	42	<10	56
JEN 26		0.07	<10	<10	39	<10	49
JEN 27		0.07	<10	<10	35	<10	49
JEN 28		0.10	<10	<10	42	<10	61
JEN 29		0.03	<10	<10	27	<10	64
JEN 30		0.05	<10	<10	33	<10	75
JEN 31		0.04	<10	<10	35	<10	158
JEN 32		0.04	<10	<10	50	<10	99
JEN 33		0.04	<10	<10	70	<10	106
JEN 34		0.06	<10	<10	51	<10	73
JEN 35		0.05	<10	<10	44	<10	86
JEN 36		0.05	<10	<10	44	<10	78
JEN 37		0.04	<10	<10	39	<10	80
JEN 38		0.02	<10	<10	21	<10	87
JEN 39		0.05	<10	<10	46	<10	78
JEN 40		0.08	<10	<10	32	<10	102





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**CERTIFICATE OF ANALYSIS VA08099660**

Sample Description	Method Analyte Units LOR	WEI-21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt.	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	0.01	10	
JEN 41		0.15	<0.2	1.95	6	<10	260	0.6	<2	0.90	<0.5	16	32	28	3.38	10
JEN 42		0.16	<0.2	1.95	5	<10	210	0.6	<2	1.13	<0.5	16	33	24	3.27	<10
JEN 43		0.37	0.2	1.88	4	<10	140	0.7	<2	1.08	<0.5	17	36	38	3.38	<10





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**CERTIFICATE OF ANALYSIS VA08099660**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
JEN 41		<1	0.06	30	0.64	688	<1	0.02	37	620	10	0.03	<2	4	67	<20
JEN 42		<1	0.28	10	0.73	665	<1	0.02	38	800	9	0.05	<2	3	150	<20
JEN 43		1	0.29	20	0.83	427	<1	0.02	49	640	8	0.04	<2	4	109	<20





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## CERTIFICATE OF ANALYSIS VA08099660

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm
		0.01	10	10	1	10	2
JEN 41		0.04	<10	<10	41	<10	72
JEN 42		0.09	10	<10	29	<10	102
JEN 43		0.09	<10	<10	33	<10	96





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Account: KREBER

## CERTIFICATE OF ANALYSIS VA08130528

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23
		Recvd Wt. kg	Au ppm
		0.02	0.005
DM8S-19		0.31	0.033
DM8S-20		0.28	0.015
DM8S-21		0.41	0.056
DM8S-22		0.32	0.015
DM8S-23		0.35	<0.005
DM8S-24		0.45	0.005
DM8S-25		0.38	<0.005
IONS-28		0.33	0.011
IONS-29		0.33	0.008
IONS-30		0.44	0.021
IONS-31		0.36	0.007
IONS-32		0.44	0.079
IONS-33		0.30	0.012
IONS-34		0.24	<0.005
LM8DF-1		0.24	0.007
LM8DF-2		0.34	0.006
LM8DF-3		0.29	<0.005
LM8DF-4		0.38	<0.005
LM8DF-5		0.34	<0.005
GR8DF-1		0.37	0.031
GR8DF-2		0.37	0.013
GR8DF-3		0.32	0.056
GR8DF-4		0.28	0.005
GR8DF-5		0.33	0.200
GR8DF-6		0.28	0.064
GR8DF-7		0.43	<0.005
GR8DF-8		0.35	0.147
GR8DF-9		0.31	0.016
GR8DF-10		0.32	0.009
GR8DF-11		0.51	0.013
GR8DF-12		0.36	0.015
GR8DF-13		0.43	0.029
GR8DF-14		0.37	<0.005
GR8DF-15		0.30	0.015
GR8DF-16		0.46	0.010
GR8DF-17		0.34	0.022
GR8DF-18		0.29	0.007
GR8DF-19		0.39	0.006
GR8DF-20		0.39	0.011
GR8DF-21		0.27	0.021





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## CERTIFICATE OF ANALYSIS VA08130528

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23
		Recvd Wt. kg 0.02	Au ppm 0.005
GR8DF-22		0.31	0.013
GR8DF-23		0.37	<0.005
GR8DF-24		0.47	0.018
GR8DF-25		0.42	0.013
GR8DF-26		0.32	0.028
GR8DF-27		0.31	0.018
GR8DF-28		0.38	0.014
GR8DF-29		0.51	0.019
GR8DF-30		0.34	0.013
GR8DF-31		0.46	0.053
GR4A		0.53	0.058
GR5A		0.60	0.015
GR6A		0.52	<0.005
GR7A		0.57	<0.005
GR8A		0.55	<0.005
GR4B		0.48	<0.005
GR5B		0.62	0.013
GR6B		0.41	<0.005
GR7B		0.54	<0.005
GR8B		0.54	<0.005
GR4C		0.48	<0.005
GR5C		0.59	<0.005
GR6C		0.58	0.013
GR7C		0.49	0.012
GR8C		0.47	<0.005
GR25		0.53	0.032
GR26		0.60	<0.005
GR27		0.42	0.010
GR28		0.55	0.005
GR29		0.48	<0.005
GR30		0.49	<0.005
GR31		0.54	<0.005
GR32		0.46	<0.005





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## CERTIFICATE OF ANALYSIS VA08098043

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
LOMR08-01		0.62	0.113	<0.2	0.54	2	<10	2160	<0.5	<2	0.02	<0.5	<1	5	5	0.97
LOMR08-02		1.50	0.097	<0.2	0.59	<2	<10	990	<0.5	<2	0.02	<0.5	1	5	4	1.23
LOMR08-03		1.78	0.022	<0.2	0.76	<2	<10	1640	0.6	<2	0.03	<0.5	1	6	4	1.24
LOMR08-04		0.56	0.005	0.2	0.68	8	<10	3690	<0.5	7	0.01	<0.5	<1	4	3	1.54
LOMR08-05		0.76	0.014	0.6	0.71	13	<10	2470	<0.5	13	0.01	<0.5	<1	6	8	2.14
LOMR08-06		0.86	0.009	0.9	0.59	11	<10	780	<0.5	<2	0.01	0.5	2	5	6	1.49
LOMR08-07		0.74	<0.005	0.2	0.26	2	<10	270	<0.5	2	0.01	<0.5	1	4	2	0.80
LOMR08-08		0.76	0.006	<0.2	0.38	2	<10	290	<0.5	<2	0.01	<0.5	1	5	21	1.09
LOMR08-09		0.14	<0.005	0.2	0.42	<2	<10	2410	<0.5	<2	0.01	<0.5	2	3	2	0.73
CARR08-01		0.42	0.011	0.5	0.36	97	<10	320	<0.5	<2	0.07	<0.5	5	5	9	1.78
CARR08-02		0.68	0.014	0.2	0.30	66	<10	140	<0.5	2	0.05	<0.5	3	3	3	1.25
CARR08-03		0.52	0.012	<0.2	0.22	96	<10	210	<0.5	<2	0.04	<0.5	3	6	5	1.26
CARR08-04		0.70	0.282	1.1	0.23	1995	<10	1060	<0.5	<2	0.09	1.2	4	9	21	1.67
CARR08-05		0.36	0.005	<0.2	0.06	26	<10	580	<0.5	<2	0.01	<0.5	<1	11	3	0.52
CARR08-06		0.68	0.007	<0.2	0.25	15	<10	980	<0.5	<2	0.02	<0.5	<1	3	3	0.60
CARR08-07		0.52	<0.005	0.2	0.32	4	<10	840	<0.5	<2	0.01	<0.5	1	5	4	0.82
CARR08-08		0.60	0.007	<0.2	0.07	2	<10	60	<0.5	<2	0.01	<0.5	1	10	2	0.45
CARR08-09		0.86	0.012	1.7	0.33	<2	<10	320	<0.5	5	0.22	0.7	1	5	4	0.76
CARR08-10		0.44	0.008	<0.2	0.31	<2	<10	560	<0.5	<2	0.72	<0.5	1	2	1	0.59
CARR08-11		0.86	0.025	<0.2	0.03	<2	<10	260	<0.5	<2	0.01	<0.5	1	14	2	0.43
CARR08-12		1.38	0.150	3.2	0.29	10	<10	280	<0.5	3	0.68	13.3	4	5	273	1.42
CARR08-13		1.02	0.123	1.6	0.20	19	<10	130	<0.5	<2	0.10	0.5	3	8	15	2.29
CARR08-14		1.10	0.008	<0.2	0.18	3	<10	300	<0.5	<2	0.02	<0.5	1	9	4	0.51
CARR08-15		1.06	0.078	0.6	0.38	17	<10	330	<0.5	<2	0.08	<0.5	3	6	30	2.52
CARR08-16		0.98	0.032	0.3	0.06	7	<10	280	<0.5	2	0.01	<0.5	1	13	3	0.72
CARR08-17		0.40	0.011	<0.2	0.53	5	<10	390	<0.5	2	0.04	<0.5	1	6	6	0.99
CARR08-17A		0.68	0.015	<0.2	0.09	2	<10	60	<0.5	<2	0.01	<0.5	1	11	4	0.75
CARR08-18		0.80	0.039	0.2	0.63	47	<10	1310	<0.5	<2	0.11	0.5	3	9	8	2.22
CARR08-19		0.54	0.005	<0.2	0.35	2	<10	350	<0.5	<2	0.40	<0.5	1	2	7	0.59
MCD08R-01		0.28	0.033	<0.2	1.60	1050	<10	90	0.9	<2	0.33	<0.5	22	25	23	2.39
MCD08R-02		0.76	0.021	<0.2	1.19	816	<10	80	<0.5	<2	1.46	<0.5	6	13	11	2.69
MCD08R-03		0.46	0.008	0.3	2.46	282	<10	100	2.4	<2	0.80	<0.5	19	32	27	5.26

Comments: Sample CARR08-17A is an extra sample. The sample submittal indicates the last three sample descriptions as MCD08-01 to 03, but the IDs of these samples are actually MCD08R-01 to 03.





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## CERTIFICATE OF ANALYSIS VA08098043

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
LOMR08-01		<10	<1	0.49	10	0.07	59	<1	0.04	3	50	20	0.15	<2	1	16
LOMR08-02		<10	<1	0.55	40	0.05	52	<1	0.03	2	90	4	0.01	<2	1	6
LOMR08-03		<10	<1	0.51	30	0.07	159	<1	0.14	2	110	2	0.03	<2	2	21
LOMR08-04		<10	<1	0.58	10	0.05	50	<1	0.05	1	30	48	0.08	<2	1	8
LOMR08-05		<10	<1	0.44	20	0.05	82	10	0.08	1	60	81	0.10	<2	1	4
LOMR08-06		<10	1	0.31	30	0.05	546	<1	0.08	2	80	484	0.01	<2	2	3
LOMR08-07		<10	<1	0.16	20	0.02	59	<1	0.04	1	70	144	<0.01	<2	1	3
LOMR08-08		<10	<1	0.25	30	0.03	58	<1	0.05	1	80	17	<0.01	<2	1	3
LOMR08-09		<10	<1	0.27	30	0.04	216	1	0.08	1	60	25	0.06	<2	1	44
CARR08-01		<10	<1	0.25	20	0.03	399	<1	0.05	5	300	52	0.01	<2	3	9
CARR08-02		<10	1	0.24	30	0.02	89	<1	0.04	5	270	24	<0.01	<2	2	7
CARR08-03		<10	<1	0.17	20	0.02	147	<1	0.04	5	180	17	<0.01	<2	1	8
CARR08-04		<10	1	0.18	30	0.01	596	<1	0.05	4	260	88	0.02	<2	2	12
CARR08-05		<10	<1	0.04	10	<0.01	44	<1	0.03	2	20	10	0.03	<2	<1	14
CARR08-06		<10	<1	0.21	40	0.02	47	1	0.04	1	70	36	0.03	<2	1	28
CARR08-07		<10	<1	0.21	30	0.02	45	<1	0.06	2	70	54	0.06	<2	1	14
CARR08-08		<10	<1	0.03	10	<0.01	53	<1	0.04	1	30	5	0.01	<2	1	3
CARR08-09		<10	<1	0.29	20	0.06	267	<1	0.05	1	90	167	0.22	<2	1	16
CARR08-10		<10	1	0.28	20	0.09	189	<1	0.05	<1	70	11	0.34	<2	1	41
CARR08-11		<10	<1	0.02	<10	<0.01	36	<1	0.02	2	10	5	0.03	<2	<1	5
CARR08-12		<10	<1	0.23	20	0.18	260	6	0.06	2	320	515	1.07	<2	1	47
CARR08-13		<10	<1	0.07	20	0.03	128	3	0.06	5	310	32	0.02	<2	5	8
CARR08-14		<10	<1	0.13	20	0.01	118	1	0.05	1	30	10	0.22	<2	<1	5
CARR08-15		<10	<1	0.16	30	0.03	110	4	0.06	7	350	99	0.05	<2	4	11
CARR08-16		<10	<1	0.02	<10	<0.01	34	<1	0.04	2	30	12	0.22	<2	<1	7
CARR08-17		<10	1	0.33	30	0.04	52	<1	0.07	2	130	16	0.04	<2	1	9
CARR08-17A		<10	<1	0.03	<10	<0.01	41	<1	0.04	1	40	20	0.06	<2	1	2
CARR08-18		<10	<1	0.28	20	0.06	165	5	0.03	5	210	15	0.20	<2	2	47
CARR08-19		<10	<1	0.24	20	0.07	141	<1	0.08	<1	60	2	0.46	<2	1	102
MCD08R-01		10	<1	0.67	30	0.65	181	<1	0.03	35	1280	11	0.84	<2	2	22
MCD08R-02		<10	<1	0.33	10	0.65	860	<1	0.04	12	1480	31	1.18	<2	2	77
MCD08R-03		10	<1	0.43	20	0.94	270	<1	0.03	41	790	13	2.62	8	4	35

Comments: Sample CARR08-17A is an extra sample. The sample submittal indicates the last three sample descriptions as MCD08-01 to 03, but the IDs of these samples are actually MCD08R-01 to 03.





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**CERTIFICATE OF ANALYSIS VA08098043**

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
LOMR08-01		<20	<0.01	<10	<10	1	<10	3
LOMR08-02		<20	<0.01	<10	<10	1	<10	4
LOMR08-03		20	0.01	<10	<10	2	<10	<2
LOMR08-04		<20	<0.01	<10	<10	<1	<10	<2
LOMR08-05		<20	<0.01	<10	<10	1	30	20
LOMR08-06		<20	<0.01	<10	<10	1	<10	177
LOMR08-07		<20	<0.01	<10	<10	<1	<10	26
LOMR08-08		20	<0.01	<10	<10	<1	10	38
LOMR08-09		20	<0.01	<10	<10	1	<10	<2
CARR08-01		<20	<0.01	<10	<10	4	<10	63
CARR08-02		<20	<0.01	<10	<10	2	<10	51
CARR08-03		<20	<0.01	<10	<10	3	<10	24
CARR08-04		<20	<0.01	<10	<10	3	<10	59
CARR08-05		<20	<0.01	<10	<10	1	<10	<2
CARR08-06		20	<0.01	<10	<10	1	<10	33
CARR08-07		20	<0.01	<10	<10	1	<10	22
CARR08-08		<20	<0.01	<10	<10	1	<10	4
CARR08-09		<20	<0.01	<10	<10	<1	<10	49
CARR08-10		<20	<0.01	<10	<10	<1	<10	<2
CARR08-11		<20	<0.01	<10	<10	<1	<10	<2
CARR08-12		<20	<0.01	<10	<10	2	<10	693
CARR08-13		<20	<0.01	<10	<10	3	<10	58
CARR08-14		<20	<0.01	<10	<10	1	<10	12
CARR08-15		<20	<0.01	<10	<10	3	<10	78
CARR08-16		<20	<0.01	<10	<10	<1	<10	2
CARR08-17		<20	<0.01	<10	<10	1	<10	15
CARR08-17A		<20	<0.01	<10	<10	1	<10	10
CARR08-18		<20	<0.01	<10	<10	1	<10	64
CARR08-19		<20	<0.01	<10	<10	<1	<10	<2
MCD08R-01		<20	0.01	<10	<10	18	<10	34
MCD08R-02		<20	0.01	<10	<10	9	<10	35
MCD08R-03		<20	0.01	<10	<10	27	<10	59

Comments: Sample CARR08-17A is an extra sample. The sample submittal indicates the last three sample descriptions as MCD08-01 to 03, but the IDs of these samples are actually MCD08R-01 to 03.





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## CERTIFICATE OF ANALYSIS VA08099662

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23
		Recvd Wt. kg 0.02	Au ppm 0.005
ROBR08-36		0.13	0.006
CKYR08-49		0.06	0.007
JKR08-01		0.53	0.005
JKR08-02		0.59	0.016
JKR08-03		0.33	0.006
JKR08-04		0.39	<0.005
JKR08-05		0.93	<0.005
JKR08-06		0.72	0.027
JKR08-07		1.37	0.005
JKR08-08		0.43	0.011